

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Frough Sherwani

GENERAL INFORMATION:

Name:	RR Donnelley, Nielsen Plant
Address:	7405 Industrial Road Florence, Kentucky 41042
Date application received:	8/20/07
SIC Code/SIC description:	2752, Commercial Printing, Lithographic
Source ID:	21-015-00082
Source A.I. #:	222
Activity ID:	APE20060001
Permit:	F-06-073 R1

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
<u>X</u> Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☒ Area is non-attainment (list pollutants): Ozone, PM<sub>2.5</sub>

**EMISSIONS SUMMARY:****Existing:**

<b>Pollutants</b>	<b>Actual<sup>1</sup> (TPY)</b>	<b>Potential (TPY)</b>	<b>Allowable (TPY)</b>
<b>PM/PM<sub>10</sub></b>	0.04788	0.16644	N/A
<b>SO<sub>2</sub></b>	0.00378	0.01314	N/A
<b>NO<sub>x</sub></b>	0.63	2.19	N/A
<b>CO</b>	0.5292	1.8396	N/A
<b>VOC*</b>	85.55	347.16	97
<b>Glycol Ether</b>	2.0157	7.651	9.0
<b>Ethylene Glycol</b>	0.3955	1.41	NA
<b>Xylene</b>	0.14123	1.696	NA
<b>Cumene</b>	0.1131	1.358	NA
<b>Combined HAP &gt;22.5 TPY</b>	2.5524	10.757	22.5

1. Actual emissions are from the Kentucky Division for Air Quality's 2006 Emissions Inventory report.

**Addition of Emission Point # 14 (press 1240)  
(Revision 1):**

<b>Pollutants</b>	<b>Actual (TPY)</b>	<b>Potential (TPY)</b>	<b>Allowable (TPY)</b>
<b>VOC*</b>	0	16.38	NA
<b>Glycol Ether</b>	0	0.138	NA
<b>Combined HAP &gt;22.5 TPY</b>	0	0.138	NA

**Source Wide after Modification:**

<b>Pollutants</b>	<b>Actual (TPY)</b>	<b>Potential (TPY)</b>	<b>Allowable (TPY)</b>
<b>PM/PM<sub>10</sub></b>	0.04788	0.16644	N/A
<b>SO<sub>2</sub></b>	0.00378	0.01314	N/A
<b>NO<sub>x</sub></b>	0.63	2.19	N/A
<b>CO</b>	0.5292	1.8396	N/A
<b>VOC*</b>	85.072	351.515	97
<b>Glycol Ether</b>	1.9046	6.7648	9.0
<b>Ethylene Glycol**</b>	0.3767	1.2754	NA
<b>Xylene**</b>	0.1001	1.54	NA
<b>Cumene**</b>	0.1131	1.358	NA
<b>Combined HAP*** &gt;22.5 TPY</b>	2.5524	10.757	22.5

\* The source has accepted a facility-wide limit on annual VOC emission to no more than 97 tons. The actual VOC emissions shall be calculated based on 12-month rolling total.

\*\* The source has accepted a facility-wide limit on annual single HAP emissions to no more than 9.0 tons and combined HAPS 22.5 tons. The actual HAPS emissions shall be calculated based on 12-month rolling total

**Revision 1 (Minor Revision):**

On August 20, 2007 the Division received an application from the source for the minor revision to their conditional major permit F-06-012 for the following.

1. Name change from “The Nielsen Company” to “RR Donnelley, Nielsen Plant”.
2. Adding a Emission Point # 14 (Press 1240, KBA Rapida, Sheetfeed Nonheatset, Offset Lithographic Printing Press, 12 printing units, 2 Coating Units, and UV Curing System)
3. Removing Emission Point # 07 (Komori 226 Sheetfeed) and Emission Point # 08 (Komori 626 Sheetfeed)

The current source wide emission allowables for VOC is 97 tons per rolling 12-month period, 9 and 22.5 tons per rolling 12-month period for a single and combined HAPs respectively. These allowables will remain the same.

**SOURCE DESCRIPTION:**

The Nielsen Company has applied to the Division for Air Quality for a renewal of their permit # F-01-018. The source is in the commercial lithographic printing industry (SIC 2752, Commercial Printing, Lithographic) and is located in Boone county that is classified as an ozone nonattainment area pursuant to Regulation 401 KAR 51:010. The source produces printed papers with web presses and sheetfed presses. The activities at each press include use of inks and fountain solutions during production print runs and use of solvents during cleanup operations. Inks, solvents, and fountain solutions are the major raw materials that generate emissions of volatile organic compounds including low levels of hazardous air pollutants. There is no control on VOC emissions.

**EMISSION AND OPERATING CAPS:**

1. VOC emissions shall be less than 97 tons during any consecutive twelve (12) month period. Monthly or weekly records to demonstrate compliance with this limitation shall be maintained, and total VOC emissions shall be reported as stated in SECTION D of this permit, F-06-073.
2. HAP emissions shall be less than or equal to 9.0 tons per year of any single HAP or 22.5 tons per year of any combination of HAPs. These annual limitations shall not exceed during any consecutive twelve (12) month period for the entire source.